

Option Instructions

64/256KB Memory Expansion Option

For



The warranty terms and conditions applicable in the country of purchase in respect of an IBM Personal Computer product are available from the supplier. Please retain them with your proof of purchase.

Any US Option Instructions without the above warranty notice are inapplicable and should be ignored.

No statements contained in this documentation shall affect the statutory rights of consumers.

This option consists of:

- 64/256KB Memory Expansion Option

If any items are missing or damaged, notify your place of purchase.

Note: If you have any problem after installation, one of the following is the most likely cause:

- 64/256KB Memory Option
- Improper cabling
- Other options may have loosened
- Switches improperly set

Memory Board 256K

1011 0001

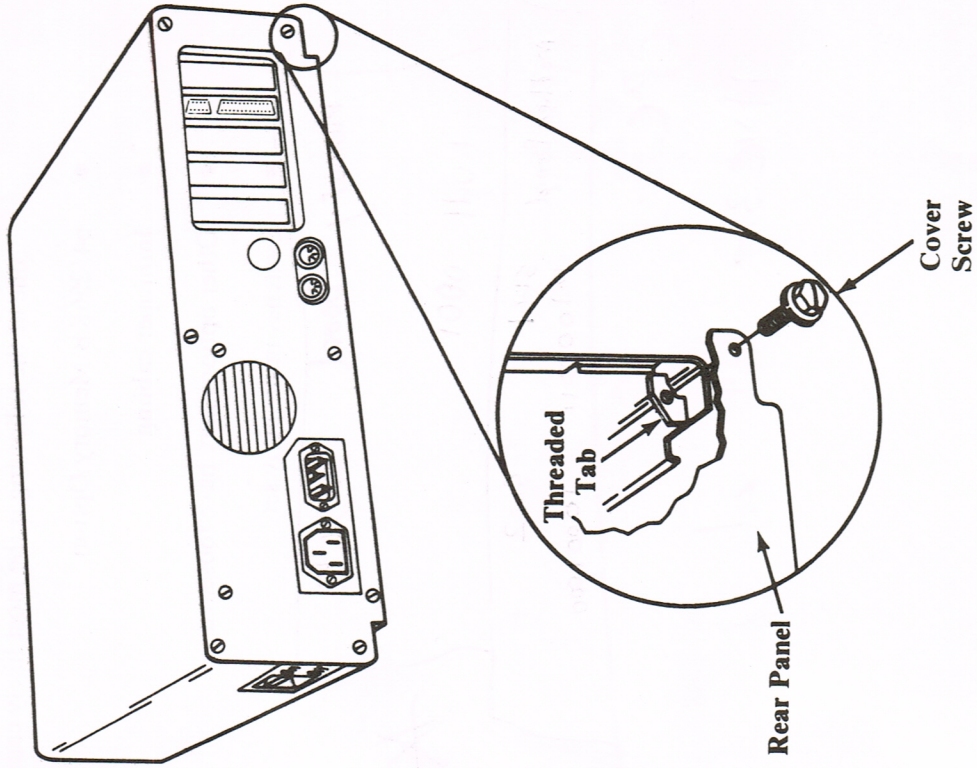
Mother Board SW1 SW2
01000011 10001000

CPC

HNC3-3074 x1

285-585 ' 519-531
Head 2
George 125

- 17.** When the cover is all the way to the rear, align the screw with the threaded tabs and tighten. Use a flat-blade screwdriver or 1/4-inch nutdriver and turn clockwise.



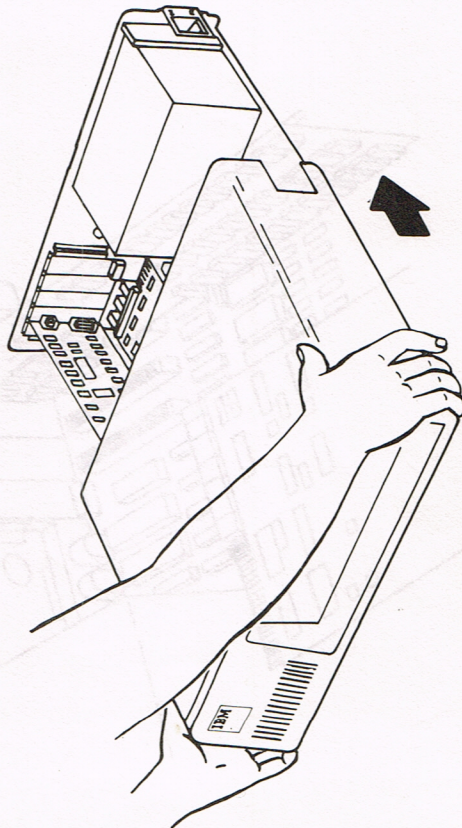
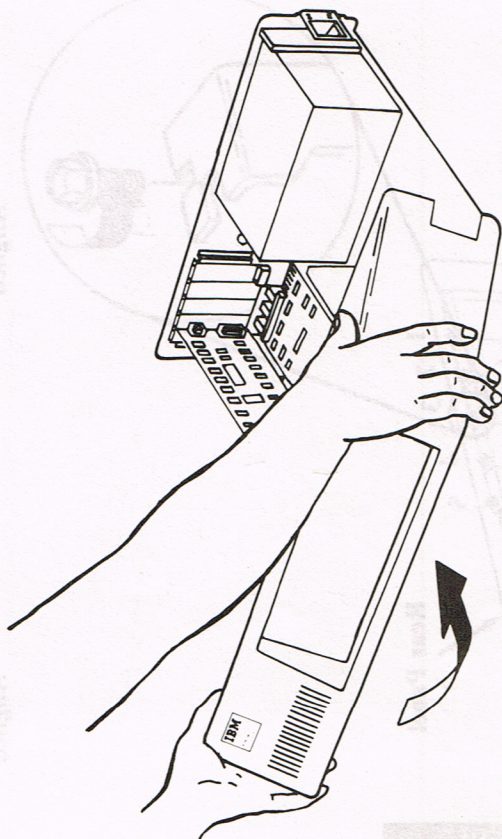
MEMORY

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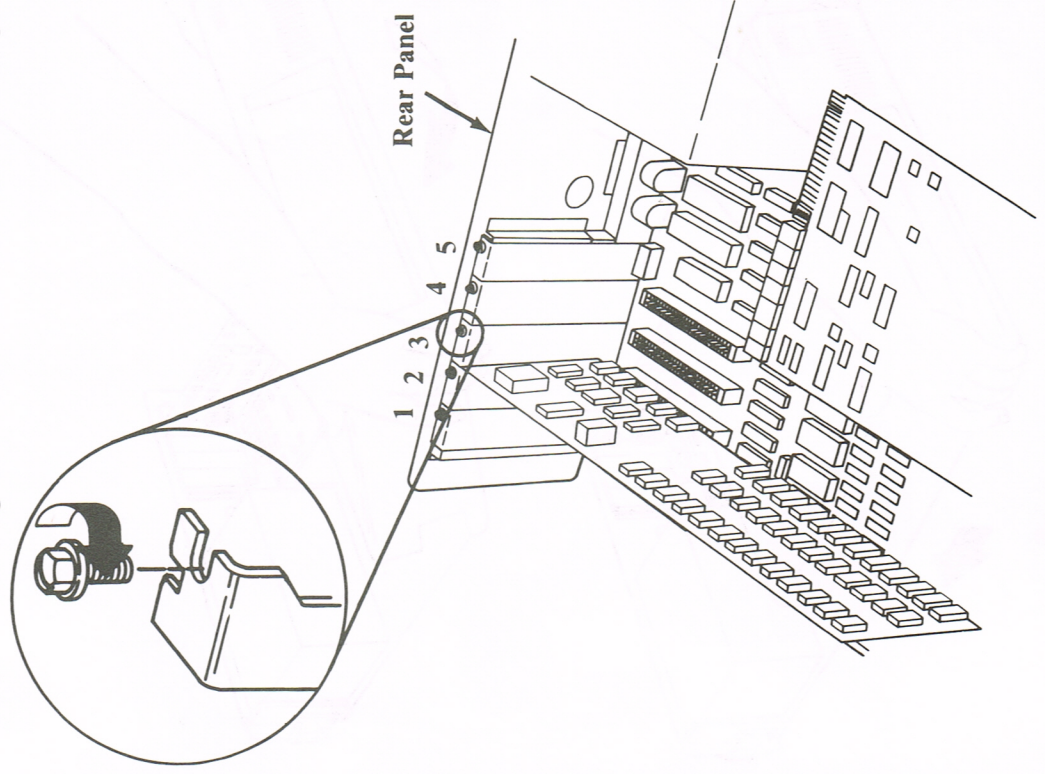
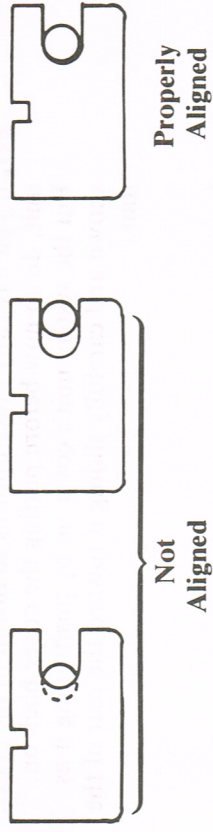
15. If you have an expansion unit attached, go to the expansion unit option installation procedures and set the switches on the extender card to reflect the total system memory.

16. If you have any other options to install in the system unit, do so now before putting the cover back on. Put the system unit's cover on by positioning it as shown and carefully sliding it toward the rear of the unit.



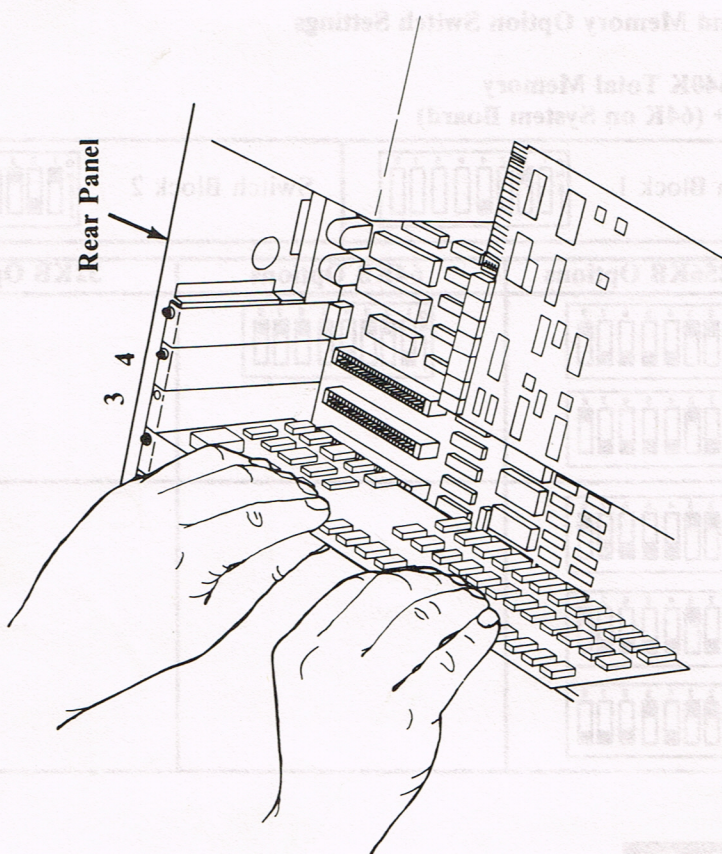
Notes:

- 14.** Align the slot in the option retaining bracket with the hole in the rear plate of the system unit. Start the screw clockwise, then tighten with a flat-blade screwdriver or 3/16-inch nutdriver.



MEMORY

13. Hold option by the top and firmly press it into the expansion slot as shown below.



Installation Requirements

Your system board must be at its maximum capacity of 64K memory before installing this option.

Tool Required

- Medium-size, flat-blade screwdriver

Optional:

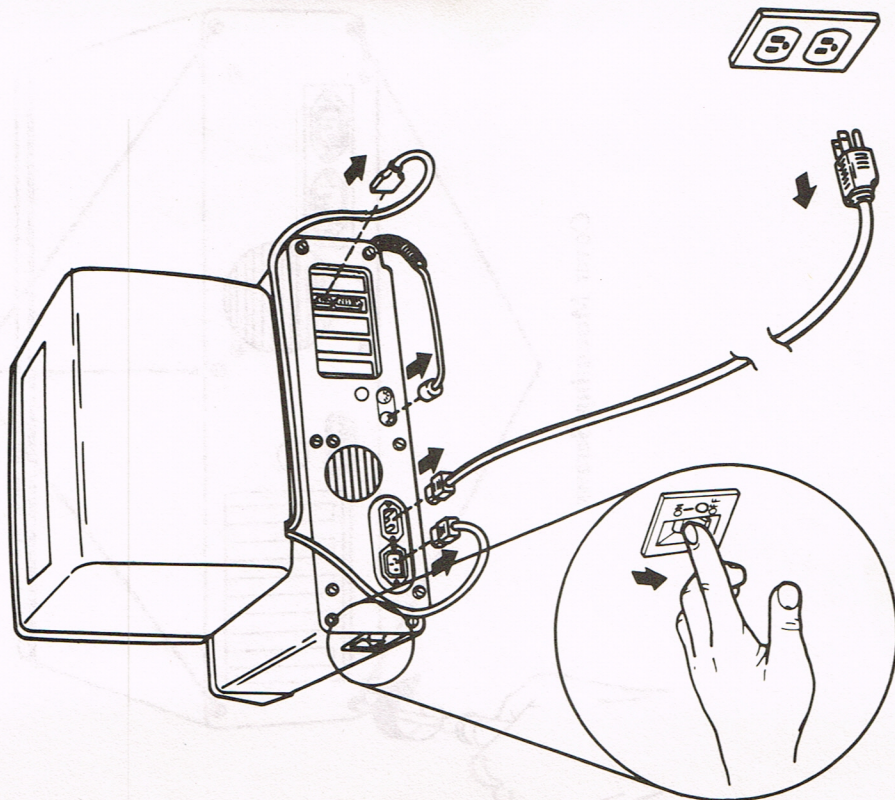
- Medium screwstarter
- 3/16-inch nutdriver
- 1/4-inch nutdriver

System Board Switches		Switch Block 1		Switch Block 2	
64/256KB Options		64KB Options		32KB Options	
2-64/256KB options with 256KB installed		1-64KB option		2-64/256KB options with 256KB installed	
1-64/256KB options with 64KB installed					

MEMORY



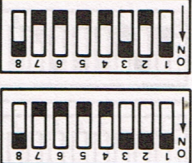
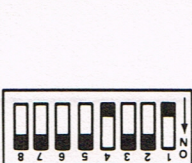


Installation Instructions

1. Set the Power switch on the system unit (and expansion unit, if attached) to Off.
2. Set all external power switches Off (printer, TV, etc.).
3. Unplug the system unit's (and expansion unit's) power cord from the wall outlet.
4. Disconnect all cables from the rear of the system unit.



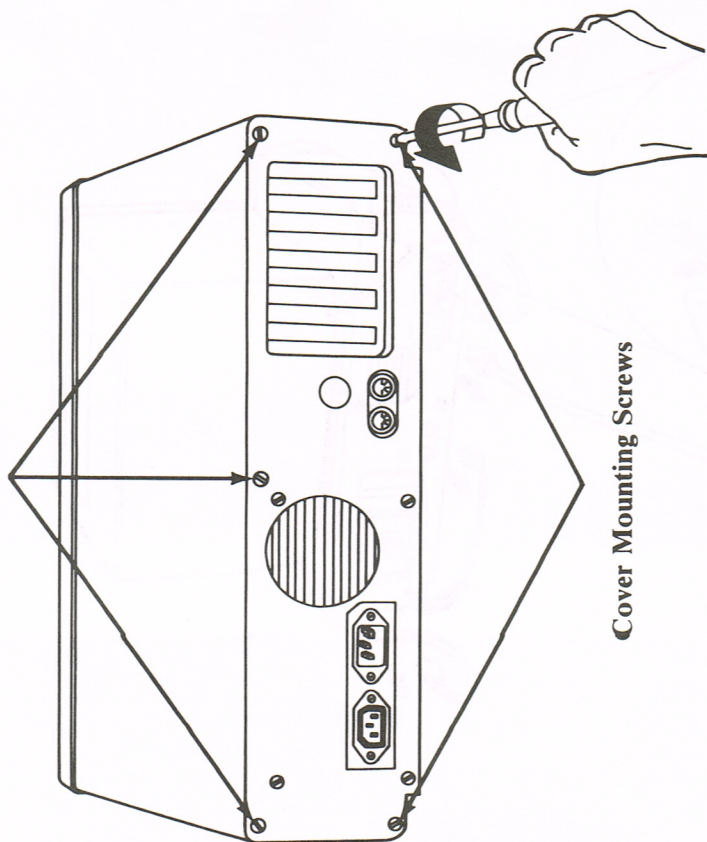
System Board and Memory Option Switch Settings

608K Total Memory
544K + (64K on System Board)

System Board Switches		Switch Block 1		Switch Block 2	
				32KB Options	
64/256KB Options		64KB Options		32KB Options	
					
2-64/256KB options with 256KB installed 1-32KB option					

5. Move your keyboard and all external options away from the work area.
6. Position the system unit to allow access to the rear.
7. Use a flat-blade screwdriver or 1/4-inch nutdriver and remove the five cover mounting screws by turning them counterclockwise as shown in the figure below. Save the screws for the installation of the cover.

Cover Mounting Screws
(These three screws may not be present on your system unit)



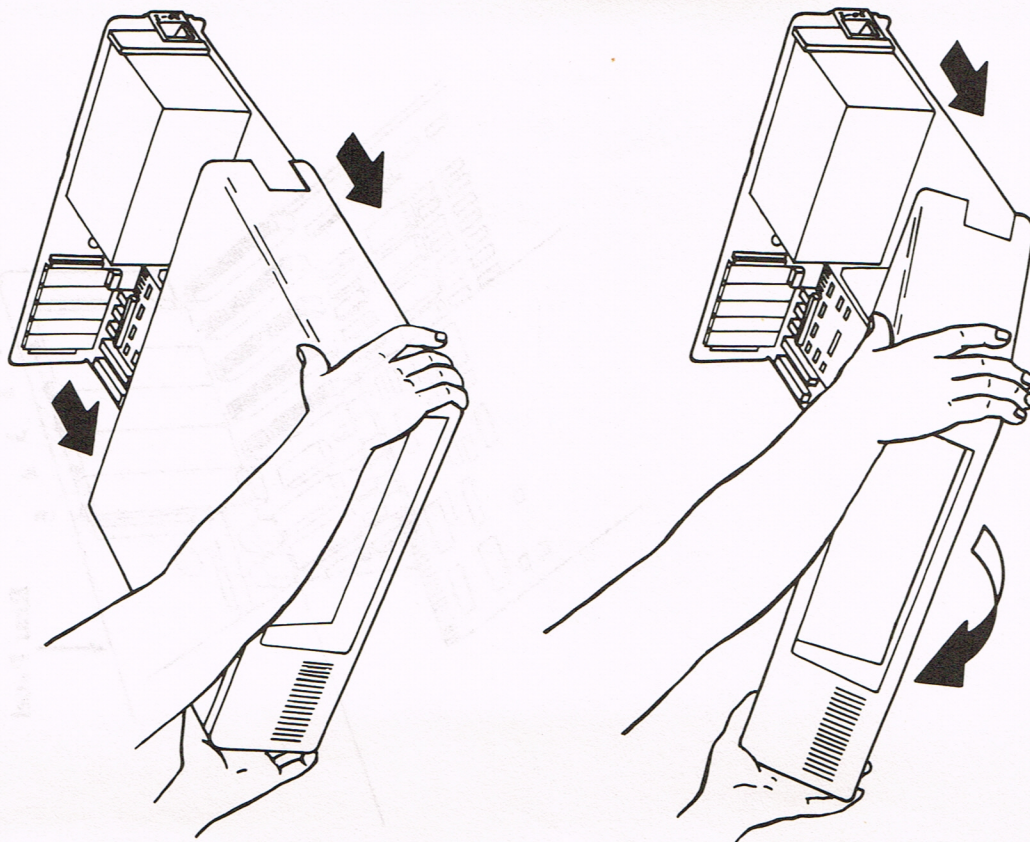
Cover Mounting Screws

System Board and Memory Option Switch Settings

576K Total Memory
512K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
		64/256KB Options	64KB Options
		1-64/256KB option with 256KB installed 1-64/256KB option with 192KB installed 1-64KB option	32KB Options
		2-64/256KB options with 256KB installed	

8. Carefully slide the system unit's cover away from the rear and to the front as indicated in the figure below. When the cover will go no further, tilt it up, remove it from the base, and set it aside.



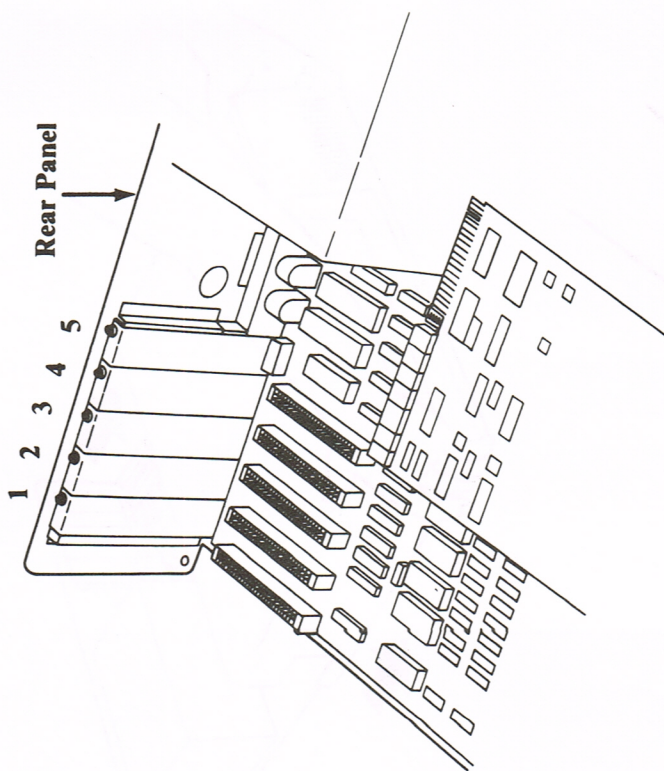
MEMORY

System Board and Memory Option Switch Settings

544K Total Memory
480K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options		64KB Options	32KB Options
1-64/256KB option with 256KB installed 1-64/256KB option with 192KB installed 1-32KB option			

- Look at the inside left rear of your system unit. There are five expansion slots. You can install your option in any unused slot.







System Board and Memory Option Switch Settings

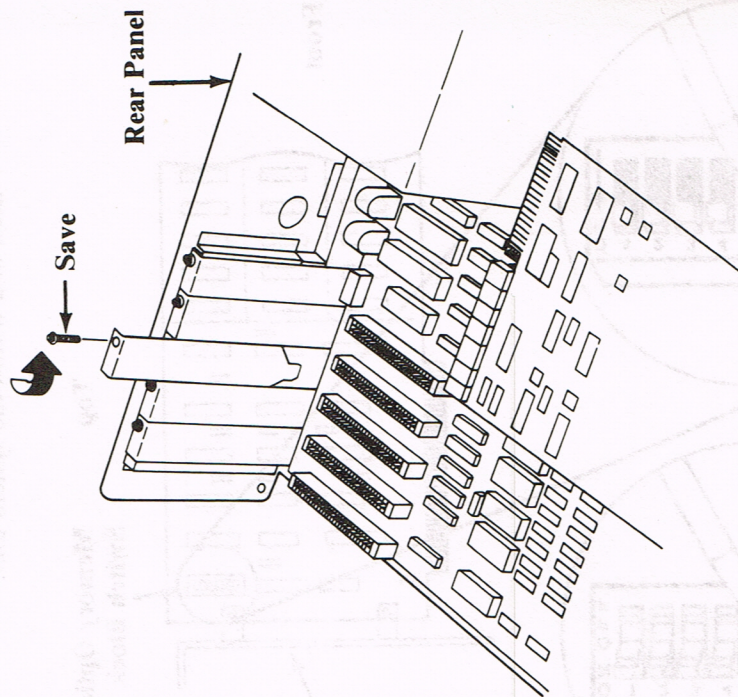
**512K Total Memory
448K + (64K on System Board)**

System Board Switches		Switch Block 1	Switch Block 2
		64/256KB Options	32KB Options
1-64/256KB option with 256KB installed	1-64/256KB option with 128KB installed	64/256KB Options	64KB Options
1-64/256KB option with 256KB installed	1-64/256KB option with 192KB installed	64/256KB Options	32KB Options

System Board and Memory Option Switch Settings

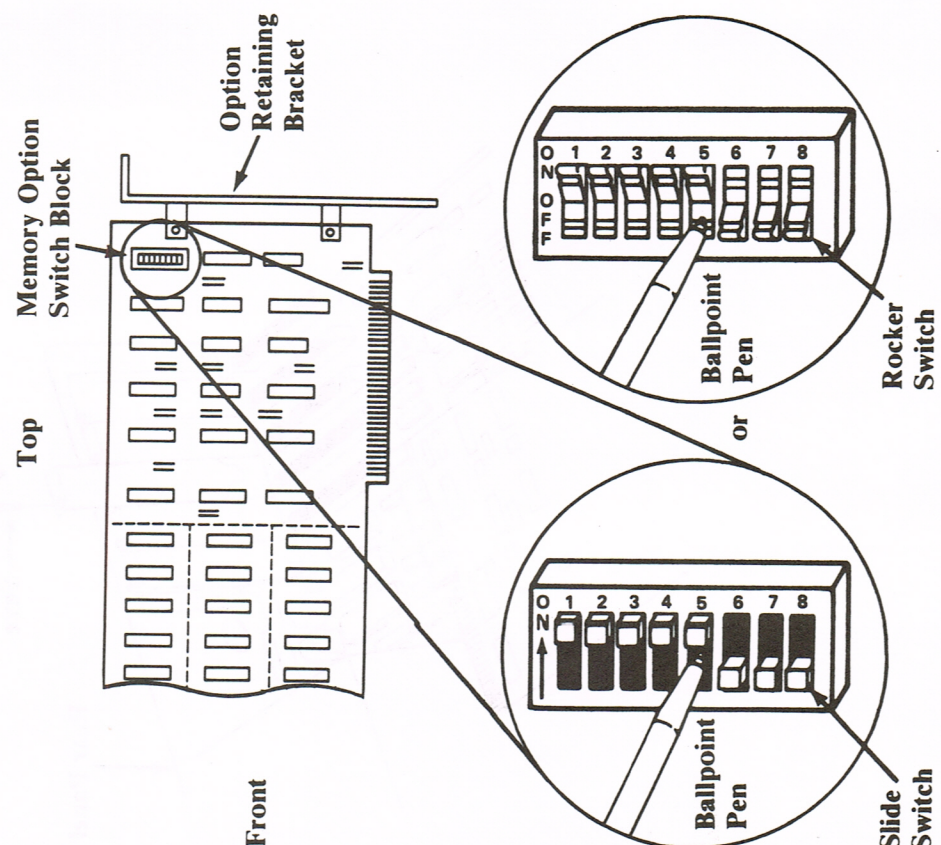
480K Total Memory
416K + (64K on System Board)

System Board Switches		Switch Block 1		Switch Block 2	
					
1-64/256KB option with 256KB installed		64/256KB Options		64KB Options	
1-64/256KB option with 128KB installed					
1-32KB option				32KB Options	



10. Use a flat-blade screwdriver or 3/16-inch nutdriver and remove the screw that holds the expansion slot in place by turning the screw counterclockwise. Save the screw for the installation of the option.

11. Place the option on a flat surface with the switches and components up. Study the figure below and familiarize yourself with the 64/256KB Memory Expansion Option. The switches on the option must reflect the amount of memory installed on the option itself and within the system unit.



Note: Set a rocker switch to the desired position by pressing down the rocker.

System Board and Memory Option Switch Settings

448K Total Memory (continued)
384K + (64K on System Board)

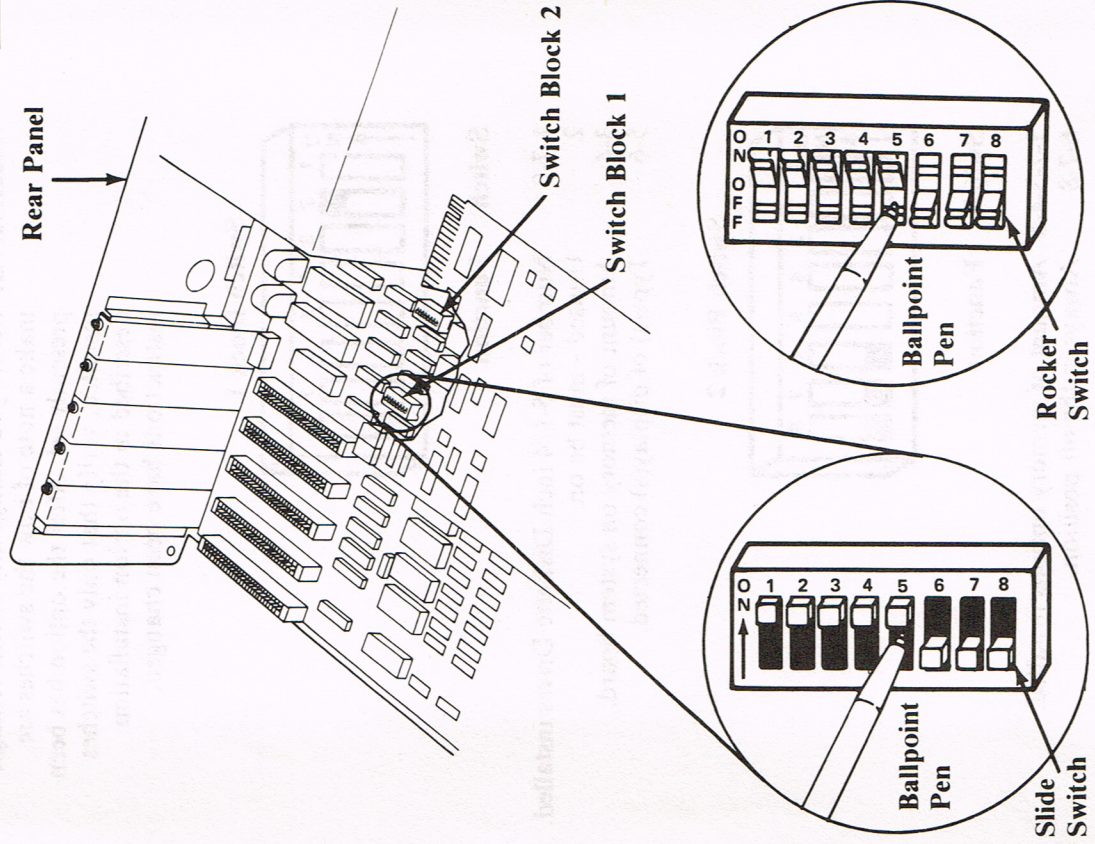
System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options		64/256KB Options	64KB Options
1-64/256KB option with 256KB installed		64/256KB Options	32KB Options
1-64/256KB option with 128KB installed		64/256KB Options	32KB Options

System Board and Memory Option Switch Settings			448K Total Memory			384K + (64K on System Board)					
System Board Switches			Switch Block 1			Switch Block 2					
1-64/256KB option with 256KB installed 1-64KB option 1-64/256KB option with 64KB installed 2-64KB options			64/256KB Options			64KB Options			32KB Options		
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64/256KB Memory Option 30

12. The switches on the system board are set to reflect the amount of memory in your system. Take a minute to familiarize yourself with their location. Use a ballpoint pen to set the switches on the system board and memory option according to the charts on the following pages.



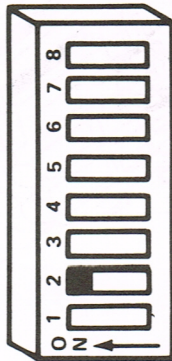
Note: Set a rocker switch to the desired position by pressing down the rocker.

Switch Setting Charts

System Board Switches

WARNING: Before you change any switch settings, make a note of how the switches are presently set. After the option has been installed, verify that only the switches described in the option installation instructions have been changed.

Switch Block 1

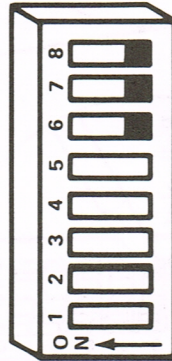


Switch

Function

- 1-7-8 Number of 5-1/4 inch Diskette Drives installed.
- 2 Unused - must be on.
- 3-4 Amount of memory on system board.
- 5-6 Type(s) of display(s) connected.

Switch Block 2



Switch

Function

- 1-2-3-4-5 Amount of memory options installed.
- 6-7-8 Always in the off position.

System Board and Memory Option Switch Settings

416K Total Memory
352K + (64K on System Board)

System Board Switches		64/256KB Options		64KB Options		32KB Options	
Switch Block 1		Switch Block 2					
1-64/256KB option with 256KB installed		1-64/256KB option with 64KB installed		1-64/256KB option with 256KB installed		1-64KB option	
1-32KB option		1-64/256KB option with 256KB installed		1-64/256KB option with 256KB installed		1-32KB option	

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Memory Option 28	1-64/256KB option with 256KB installed		
	1-64KB option		
	1-64/256KB option with 256KB installed		
64/256KB Options		32KB Options	

System Board and Memory Option Switch Settings

384K Total Memory (continued)
320K + (64K on System Board)

Number of 5-1/4 inch Diskette Drives installed.

0 - Drives	Switch Block 1	Switch Block 2
1 - Drive	Switch Block 1	Switch Block 2
2 - Drives	Switch Block 1	Switch Block 2

Type(s) of display(s) connected

WARNING: If an IBM Monochrome Display is connected to your system, Switch Block 1, switches 5 and 6, must always be off. Damage to your display can result with any other switch settings.

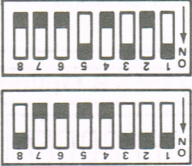

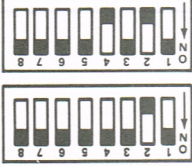


IBM Monochrome Display
(or IBM Monochrome
Display plus another display)

Color Display (Do not use if
an IBM Monochrome
Display is connected)

IBM Monochrome Display (or IBM Monochrome Display plus another display)	Switch Block 1	Switch Block 2
Color Display (Do not use if an IBM Monochrome Display is connected)	Switch Block 1	Switch Block 2
	Switch Block 1	Switch Block 2
	Switch Block 1	Switch Block 2

Note: The 40x25 mode indicates there will be 40 characters across the screen and 25 lines down the screen. The 80x25 mode indicates there will be 80 characters across the screen and 25 lines down the screen. The 80x25 mode, when used with home televisions and various displays, can cause loss of character quality.

CONTINUED

		 	1-64/256KB option with 256KB installed 1-64/256KB option with 64KB installed
	 		1-64/256KB option with 192KB installed 2-64KB options
32KB Options	64KB Options	64/256KB Options	System Board Switches

384K Total Memory
 320K + (64K on System Board)




System Board and Memory Option Switch Settings

System Board Switches		Switch Block 1	Switch Block 2
64K of Memory on System Board			
System Board Switches		Switch Block 1	Switch Block 2
48K of Memory on System Board			
System Board Switches		Switch Block 1	Switch Block 2
32K of Memory on System Board			
System Board Switches		Switch Block 1	Switch Block 2
16K of Memory on System Board			

System Board Memory Switch Setting







System Board and Memory Option Switch Settings

96K Total Memory
32K + (64K on System Board)

System Board Switches	Switch Block 1 	Switch Block 2 
64/256KB Options	64KB Options	32KB Options
1-32KB option		

System Board and Memory Option Switch Settings

352K Total Memory
288K + (64K on System Board)

System Board Switches	Switch Block 1 	Switch Block 2 
64/256KB Options	64KB Options	32KB Options
1-64/256KB option with 192KB installed		
1-64KB option		
1-32KB option		
1-64/256KB option with 256KB installed		

System Board and Memory Option Switch Settings

320K Total Memory (continued)
256K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options	64KB Options	32KB Options	
1-64/256KB option with 192KB installed	2-32KB options		
1-64/256KB option with 256KB installed			

System Board and Memory Option Switch Settings

128K Total Memory
64K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options	64KB Options	32KB Options	
1-64/256KB option with 64KB installed	1-64KB option		
	2-32KB options		

System Board and Memory Option Switch Settings

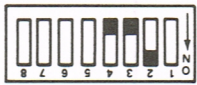




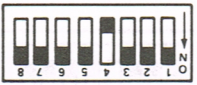



System Board Switches	Switch Block 1	Switch Block 2
64/256KB Options	32KB Options	64KB Options
1-64/256KB option with 64KB installed	1-32KB option	1-64KB option
1-32KB option	1-32KB option	3-32KB options

System Board and Memory Option Switch Settings

System Board Switches	Switch Block 1 	Switch Block 2
64/256KB Options		32KB Options
1-64/256KB option with 128KB installed 2-64KB options		
1-64/256KB option with 192KB installed 1-64KB option		

System Board and Memory Option Switch Settings




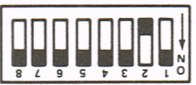


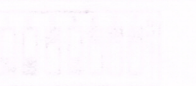
192K Total Memory
128K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
			
		64/256KB Options	32KB Options
1-64/256KB option with 64KB installed			
1-64KB option			
2-64KB options		 	
1-64/256KB option with 64KB installed			
2-32KB options			 

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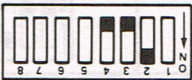

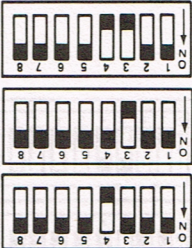
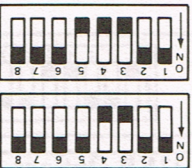
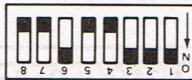
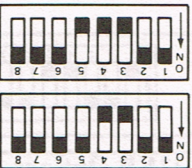
System Board and Memory Option Switch Settings

288K Total Memory
224K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
			
		64/256KB Options	32KB Options
1-64/256KB option with 192KB installed			
1-32KB option			
1-64/256KB option with 128KB installed			
1-64KB option			
1-32KB option			

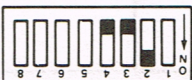

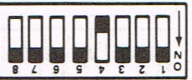





System Board and Memory Option Switch Settings

256K Total Memory (continued)
192K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options			
3-64KB options			
1-64/256KB option with 128KB installed			

System Board and Memory Option Switch Settings







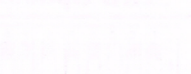
192K Total Memory (continued)
128K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
64/256KB Options			
1-64KB option			
2-32KB options			
1-64/256KB option with 128KB installed			

CONTINUED








System Board and Memory Option Switch Settings

224K Total Memory
160K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
			
64/256KB Options	64KB Options	32KB Options	
			
1-64/256KB option with 64KB installed	1-64KB option	1-32KB option	
			
2-64KB options	1-32KB option		
1-64/256KB option with 128KB installed	1-32KB option		

System Board and Memory Option Switch Settings

256K Total Memory
192K + (64K on System Board)

System Board Switches		Switch Block 1	Switch Block 2
			
64/256KB Options	64KB Options	32KB Options	
			
1-64/256KB option with 192KB installed	1-64KB option		
			
1-64/256KB option with 128KB installed	1-64KB option		
1-64/256KB option with 64KB installed	2-64KB options		